1st Ra Bill

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No.

Date:

Division: Electrical (DASARAHALLY) Sub- Division:

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket Name of Work (as per sanctioned estimate);- Maintenance and repairs to electrical installation in BBMP building schools maternity homes community hall markets and other current works..

BILL Period:- 01-01-2018 to 30-06-2018 (6 months)

Contractor and Full Address:M/s Chethan Electrical Prop:Sri G. chikkanna.

Work Order No: : EE/(Elec)/Das/WO/000014/2017-18 Dated :02-01-2018

Reference to Agreement Date ..... Job No:- 012-17-000042

Certified that the measurements were taken by me on 25/7/18 and recorded of pages 512578 to ... of Measurement Book No 5126 and that the work is satisfactorily executed.

for CHETHAN ELECTRICAL
512583
Contractor
Proprietor

Officer in charge of work

Certified that the measurements were taken by me on 25/7/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-Divisional ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

II Memorandum of Payment

56) Total value of work done or supplies as per account within	1st & Part 210644 =
57) Deduct amount to be held in reserve being .....percent Rs.....	IT 2% = 4214 -
58) " Balance	LWC 1% = 2110 -
59) Deduct payment :	CBF 0.1% = 210 -
w) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... Amount adjusted towards cash advance recovery of	TD 6534 =
x) Payments cost store or other material supplied. Now made recovery amount creditable to this/ other work	Net 204110 -
Amount paid on this bill cheque/cash	
60) Balance being unpaid value of work done held in reserve	
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments	
7) Net amount due to or from contractor	
Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	

For CHETHAN ELECTRICAL
Contractors Signature
Proprietor

Received Rs..... (in words)

Passed by me by cheque No..... Dated.....

Cash Rs..... adjustment Rs.....

Signature of contractor

Audited and admitted for Rs. 210644/-
Passed by Cheque for Rs. 204110/-
(Two lakh four thousand one hundred ten only)
6534/-

For CHETHAN ELECTRICAL
Proprietor

(For use in the office)

Stamp

Executive Engineer (Ele)

Initials of Officer making payment

Superintendent

Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

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Sl. No.	Description of item	Unit
	Name of work:- Maintenance and repairs to electrical installation in BBMP building schools maternity homes community hall markets and other current works.	
1	Licenced electrician wiremen fitter with tools (Skilled) Rs.13365/Person/Month. Rs.13365*12=1,60,380/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person Per Month
2	a).Helper (Electrical) (Semi-Skilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person Per Month
3	Supplying & Changing of Alternator AVR.(Automatic Voltage Regulator)	Nos
4	Supplying & Changing of Dynamo repair Kit such as Corbons, Bearings & Diode Etc,.	Nos
5	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS-13947. 2) 125Amps	Each
6	Supplying and fixing HRC fuse link on existing switch fuse base with watt loss as per IS-13703. 3) 125Amps	Each
7	Supplying wall mounting fan suitable to operate at single-phase 230v A.C. supply.400mm Sweep	Each
8	Supply of 230 V CFL Lamp Holder 2 pin	No
9	Point wiring using Copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Mtr
10	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm	Rmt
11	4)4 sqmm	PER Mtr
12	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board GROUP A 6Amps SP Switch	Nos
13	6Amps 3 way 5 pin Socket	Nos
14	16 Amps SP switch	No
15	16 Amps 3 way 5 pin socket	No
16	32 Amps Bakelite DP	No
17	16/6 Amps combined plug and socket wit control switch	No
18	2'/4' - 36/40 Watts Fluorescent Tubes: Supplying and fixing of 36W Fluorescent Tube with 36W power consumption with initial lumen of 2750 (3000 deg K / 4000 deg K) with rated avg life of greater than 10000 hrs.	No
19	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance)	No
20	Supplying of of 2 pin/4 pin 18W CFL Lamp	No
21	Condenser for ceiling fan/MV/SV/MH and other luminaires Upto 4 mfd	No
22	Upto 8 mfd	No
23	Stepped Fan Regulator.	Each

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Measurement Cost	Present Measurement			Total Upto Date		Remarks
	Qty.	Rate Rs. P.	Amount	Qty	Cost	
	1 Person 6 months	13365.00	80190.00	6	80190.00	
	1 Person 6 months	11011.00	66066.00	6	66066.00	
	1	8000.0	8000.00	1	8000.00	
	0	2500.0	0.00	0	0.00	
	0	4500.0	0.00	0	0.00	
	0	258.0	0.00	0	0.00	
	2	2000.0	4000.00	2	4000.00	
	5	40.0	200.00	5	200.00	
	0	250.0	0.00	0	0.00	
	95	16.0	1520.00	95	1520.00	
	0	38.0	0.00	0	0.00	
	15	33.0	495.00	15	495.00	
	10	51.0	510.00	10	510.00	
	8	80.0	640.00	8	640.00	
	8	90.0	720.00	8	720.00	
	3	140.0	420.00	3	420.00	
	4	240.0	960.00	4	960.00	
	25	43.0	1075.00	25	1075.00	
	12	330.0	3960.00	12	3960.00	
	11	100.0	1100.00	11	1100.00	
	5	70.0	350.00	5	350.00	
	3	96.0	288.00	3	288.00	
	3	270.0	810.00	3	810.00	

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24	LED Indoor Supplying of 4' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical conditionLED light fighting 4' - 28 watts	Nos
25	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/Micro processed release and Earth Fault as per IS-13947. (Icu=Ics). FOUR POLE 6) 125-160Amps 25kA.	Each
26	Supplying, installaion, testing & commis-sioning of 12Volts.. AH batteries in poly propylene container for D.G Sets low maintenance batteries. 4) 150 AH, Acid batteries.	Each
27	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A C 50 Hz 12/24v D.C.	Each
28	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 11) 95 sq mm long barrel	Each
29	15) 240 sq mm long barrel	Each
30	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 4) 5)160-200Amps	Each
31	3) 60-70 amps	Each
32	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Each
33	3) 5-32Amps DP	Each
34	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Each
35	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each
36	Fixing of ..... Amps TPST / change over switch / Contactor along with neutral link with screws, bolts nuts and wiring using required capacity wires and circuit labeling.00A to 250A TPST.	Each
37	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing 1200MM	Each
38	Filtering of oil in the transformer at the transformer center by hot process using "Stream line filter" such time the dielectric strength of the oil in the transformer conforms to ISI specification [Test certificate to be produced]	Litre
39	Supplying and Topping -up of new Transil OIL	Per Litre
40	Supplying and installation of insulated refrigerant copper tubing of 5/8`` and 3/8`` with polythene foam insulation 3 core 80 stand copper wiring between indoor and outdoor unit. Leak testing oil and gas charging for additional piping length of tube.Split	Mtrs
41	Supply and fixing of condensing coil for Split Air Conditioners.2 ton capacity	Nos
42	Supplying and fixing the fan motor for blowers and condenser of 1/5 HP, single shaft/double shaft suitable for split /window air conditioners	Nos
43	Supply and fixing cpacitor's (of approved make) for window/split air conditoner	Nos
	Total Rs	

ASST. EXECUTIVE ENGINEER (Elt)
Bruhath Bangalore Mahanagara P...
Dasarahalli Zone, Bangalore

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		0	1770.0	0.00	0	0.00	
		1	5300.0	5300.00	1	5300.00	
		0	20600.0	0.00	0	0.00	
		3	350.0	1050.00	3	1050.00	
		6	140.0	840.00	6	840.00	
		3	460.0	1380.00	3	1380.00	
		0	15800.0	0.00	0	0.00	
		1	4600.0	4600.00	1	4600.00	
		1	1800.0	1800.00	1	1800.00	
		2	830.0	1660.00	2	1660.00	
		0	90.0	0.00	0	0.00	
		2	130.0	260.00	2	260.00	
		1	350.0	350.00	1	350.00	
		3	500.0	1500.00	3	1500.00	
		0	16.0	0.00	0	0.00	
		0	130.0	0.00	0	0.00	
		0	1000.0	0.00	0	0.00	
		1	20000.0	20000.00	1	20000.00	
		0	3000.0	0.00	0	0.00	
		2	300.0	600.00	2	600.00	
				210644.00		210644.00	

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